WHAT IS CLAIMED IS:

1	1.	An immunoglobulin molecule or fragment thereof comprising a region
2	where amino acid residues corresponding to at least a portion of a complementarity	
3	determining regions (CDR) is replaced with a peptide selected from the group	
4	consisting of hBNP, hBNP mimetics, GLP-1, GLP-1 mimetics, GLP-2, GLP-2 mimetics,	
5	exendin, ex	endin mimetics, glucagons, glucagon mimetics and PACAP-38.
1	2.	An immunoglobulin molecule or fragment thereof according to claim 1
2	further comprising at least one flanking sequence including at least one amino acid	
3	covalently linked to at least one end of the peptide.	
4	3.	An immunoglobulin molecule or fragment thereof according to claim 1
5	wherein the immunoglobulin molecule fragment is selected from the group consisting	
6	of Fab fragn	nent, F(ab') ₂ fragment and ScFv fragment.
1	4.	An immunoglobulin molecule or fragment thereof according to claim 1
2	wherein the immunoglobulin molecule is a full IgG molecule.	
		ſ
1	5.	An immunoglobulin molecule or fragment thereof according to claim 1
2	wherein at least a portion of two CDRs are replaced with a peptide.	
3		
4	6.	An immunoglobulin molecule or fragment thereof according to claim 5
5	wherein the two CDRs are both located on a heavy chain.	
1	7.	An immunoglobulin molecule or fragment thereof according to claim 5
2	wherein the two CDRs are a CDR3 of a heavy chain and a CDR2 of a heavy chain.	
1	8.	An immunoglobulin molecule or fragment thereof according to claim 1
2	wherein the immunoglobulin molecule or fragment thereof is human.	

- 9. An immunoglobulin molecule or fragment thereof according to claim 1 wherein the immunoglobulin molecule or fragment thereof is anti-tetanus toxoid.
- 1 10. Nucleic acid encoding an immunoglobulin molecule or fragment thereof 2 according to claim 1.
- 1 11. An expression vector comprising nucleic acid according to claim 10.
- 1 12. A host cell transformed with an expression vector according to claim 11.
- 1 13. A method of producing an immunoglobulin molecule or fragment thereof 2 comprising culturing a host cell according to claim 12 under conditions suitable for 3 expression of the immunoglobulin or fragment thereof.
 - 14. A composition comprising an immunoglobulin or fragment thereof according to claim 1 and a pharmaceutically acceptable carrier.

1

2

3

5 6

7

8

9

11

12

13

14

15

16

- 15. A method of treating congestive heart failure comprising administering to a subject an immunoglobulin molecule or fragment thereof comprising a region where amino acid residues corresponding to at least a portion of a complementarity determining regions (CDR) is replaced with a peptide selected from the group consisting of hBNP and hBNP mimetics.
- 16. A method of treating diabetes comprising administering to a subject an immunoglobulin molecule or fragment thereof comprising a region where amino acid residues corresponding to at least a portion of a complementarity determining regions (CDR) is replaced with a peptide selected from the group consisting of, GLP-1, GLP-1 mimetics, GLP-2, GLP-2 mimetics, exendin, exendin mimetics, glucagons, glucagons mimetics and PACAP-38.

17. A method of treating obesity comprising administering to a subject an immunoglobulin molecule or fragment thereof comprising a region where amino acid residues corresponding to at least a portion of a complementarity determining regions (CDR) is replaced with a peptide selected from the group consisting of, GLP-1, GLP-1 mimetics, GLP-2, GLP-2 mimetics, exendin, exendin mimetics, glucagons, glucagons mimetics and PACAP-38.

18. A method of preserving or improving beta-cell function comprising administering to a subject an immunoglobulin molecule or fragment thereof comprising a region where amino acid residues corresponding to at least a portion of a complementarity determining regions (CDR) is replaced with GLP-1.

1 2

19. A method of inducing endothelial-dependent relaxation of preconstricted pulmonary artery rings comprising administering to a subject an immunoglobulin molecule or fragment thereof comprising a region where amino acid residues corresponding to at least a portion of a complementarity determining regions (CDR) is replaced with GLP-1.

 20. A method comprising administering to a subject an immunoglobulin molecule or fragment thereof comprising a region where amino acid residues corresponding to at least a portion of a complementarity determining regions (CDR) is replaced with a thiazolidinedione derivative.

21. A method as in claim 20 wherein the thiazolidinedione derivative is a peroxisome proliferator-activated receptor-y ligand.

22. A method of regulating adiponectin expression comprising administering to a subject an immunoglobulin molecule or fragment thereof comprising a region where amino acid residues corresponding to at least a portion of a complementarity determining regions (CDR) is replaced with a thiazolidinedione derivative.